

**ABSTRACT**

Novel methods of controlling the temperature of an exothermic reaction are  
5 disclosed. Such methods are particularly applicable to a Fischer-Tropsch synthesis  
reaction, and comprise removing a vapor phase product from the Fischer-Tropsch  
reactor, condensing at least a portion of the vapor phase product to form a volatilizable  
liquid, and injecting at least a portion of the volatilizable liquid into the reactor, wherein  
the volatilizable liquid comprises hydrocarbons that are in the highest boiling point range  
10 of the vapor phase product that is removed from the reactor.